



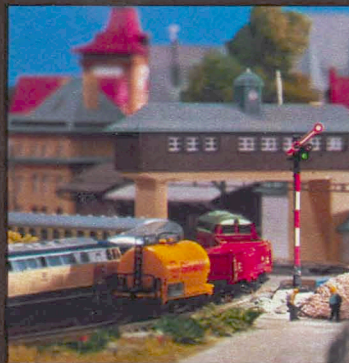
**the smallest
electric railway in
the world
1980**



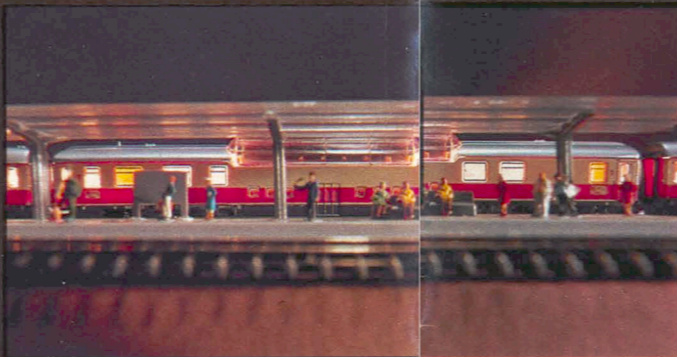
Size Z
 with 6.5 mm (1/4") gauge
 Scale 1:220
 8 volts Direct Current DC
 Fully functional catenary
 system

mini-club is a high quality model railroad system. It is accurately scale-modeled and is produced to Märklin standards. It is capable of extension in all sorts of ways and yet it occupies amazingly little space.

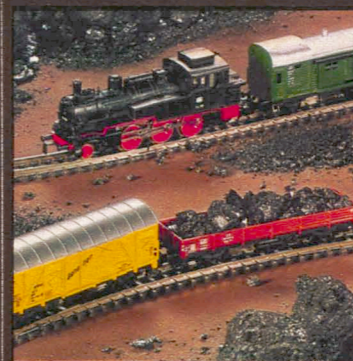
A mini-club layout can go anywhere: in a suitcase or a drawer, for example, or on a shelf. A shelf only 30 cm (11-3/16") wide can accommodate an oval track, and a double track run only occupies a width of 4 cm (1-5/16").



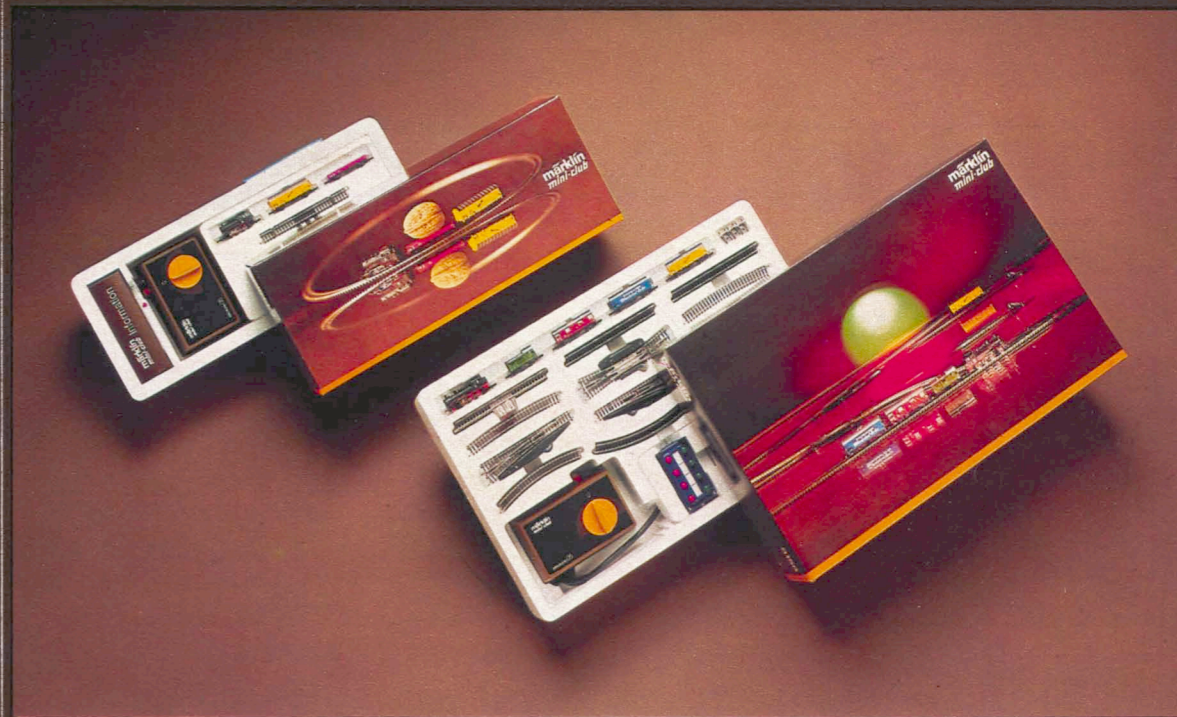
The fully functional catenary system adds considerably to the interest of a layout. Main-line tracks can be made to appear "electrified", just as in real life, and two trains on the same track can be controlled independently.



Layouts can be decorated with accessories, both conventional and unconventional. Imagination can play its part. mini-club can appear surprisingly large when placed in a landscape made up of corks and match-boxes.



Märklin mini-club Coveted by every man



**mini-club —
 ready to go**

Take it out of the box, set it up, and away you go. With mini-club it is as easy as that. Basic sets 8158-8161 and 8163-8166 S contain a complete freight train together with track material and a power pack. You can extend the set later using the SET program. Or you can start with one of our attractive train sets, a power pack and whatever track material you choose.

More information on mini-club is available in our booklet 0292 and from Märklin dealers.

A great gift on any occasion

Basic sets

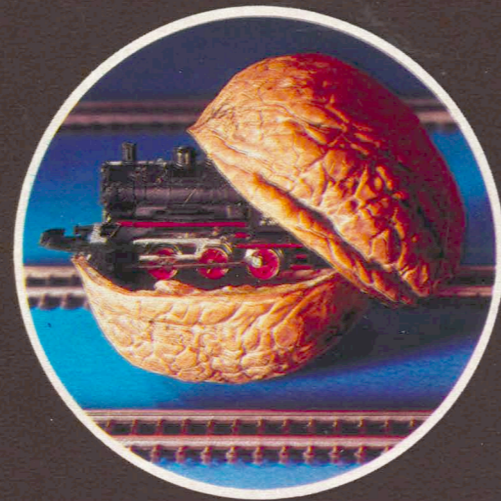
8158 220 Volt
 8159 100 Volt Japan
 8160 110 Volt (60 Hz) USA
 8161 240 Volt

Freight train with power pack - With tank locomotive 8895, 1 beer car 8603, 1 box car 8605, 1 box car 8606, 1 freight train baggage car 8609, 19 straight track sections 8500, 4 curved track sections 8520, 6 curved track sections 8521, 1 double slip switch 8560, 1 pair solenoid-operated turnouts 8561, 1 right hand solenoid-operated turnout 8561, 1 feeder track section 8590, 2 curved track sections 8591, 3 bumpers 8991, 1 water hose crane, 1 position control box 7072, 1 distribution strip 7209, leads, plugs, sleeves and a power pack - Length of train 273 mm (10-3/4")

8163 S 220 Volt
 8164 S 100 Volt Japan
 8165 S 110 Volt (60 Hz) USA
 8166 S 240 Volt

Freight train with power pack - With 1 tank locomotive 8800, 1 box car 8606, 1 low sided car 8610, 1 straight track section 8500, 4 curved track sections 8520, 6 curved track sections 8521, 1 feeder track section 8590 and 1 power pack - Length of train 160 mm (6-3/8")

The tracks of both these sets can be extended as desired, using the SET extension program, or the appropriate catenary system kits, or to your own design, using signals.



Train sets

mini-club train sets are covered gifts - beautifully packed and in realistic arrangements. They often have features not available as separate items.

8100

Express train - With 1 express locomotive 8891, 2 express coaches 8731 and 1 express baggage car 8732 - Length of train 372 mm (1 ft 2-3/4")

8101

Multiple unit train - With 1 electric locomotive (E 111), 1 local passenger service coach 8716, 1 local passenger service coach 8717 and 1 local passenger service coach with baggage compartment and control car 8718 - The locomotive and the control car are fitted with a lighting system which changes over automatically when the train changes direction, so that the train always displays 3 white headlights in front and 2 red tail-lights at the rear - Length of train 449 mm (1 ft 5-3/4")

Only the locomotive in this train set has the automatic red and white light changeover system. This locomotive can not be supplied separately.



8102

Express train - With 1 express locomotive 8892, 2 express coaches 8730 and 1 express baggage car - Length of train 372 mm (1 ft 2-3/4")

The express baggage car is not available as a separate item.

■ The first S 3/6 locomotives were based in Munich until 1941 and they played an important part in the Bavarian express services. From Munich they traveled out in all directions: to Lindau, Ulm, Würzburg, Nürnberg, Regensburg, Salzburg and Kufstein.

8103 ★ new

Track construction train - With 1 diesel locomotive 8864, 1 crane car 8621, 1 low sided car 8610 with boom support, 1 low sided car 8610 with stack of cross-ties, 1 low sided car 8610 with load of rail sections, 2 open freight cars 8622 with load of gravel and 1 accommodation car - Length of train 440 mm (1 ft 5-1/4")

■ Track construction trains consist of various combinations of cars, such as accommodation cars and cars for carrying equipment and materials. For large projects, in particular, construction crew sleeping cars are needed so that time is not lost in excessive traveling.

Regular maintenance and repair are necessary to keep the track and turnouts in good condition. The amount of maintenance required depends on axle loads, vehicle speeds, the daily load and the effects of weather. Heavily loaded tracks normally have to be replaced every 15 to 20 years.

8103



new

8101



8100



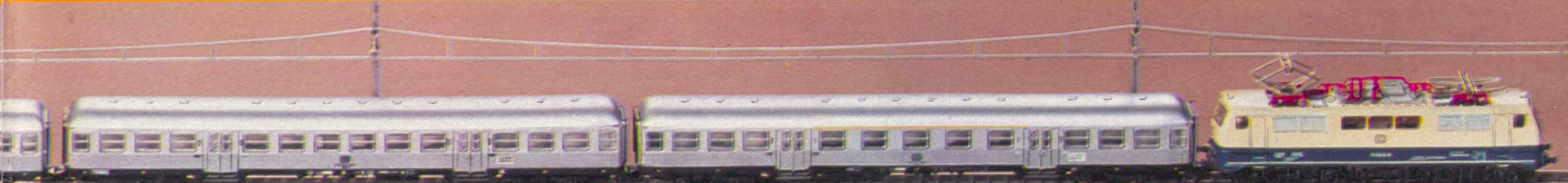
8102



8158



8163



Steam locomotives

The illustrations are actual size 1:1

Features of steam locomotives

Remote control for forward and reverse drive · Three working headlights (except 8800 which has no lights and 8803 which can take lighting set 8953) · All driving axles driven through spur gears · Automatic coupling at rear of locomotive or on the tender · Die cast zinc frame · Metal body

☞ = 8953

8891

Express locomotive with tender · Model of the former German State Railways' class 18^a · Wheel arrangement 4-6-2 · Length over buffers 106 mm (4-³/₁₆"

The mini-club range includes one of the most famous German steam locomotives in three different versions as it appeared in three great periods of railway history; the S 3/6 of the Royal Bavarian Railways (8892) and the class 18 of the former German State Railways (8891) and of German Federal Railways (8893).

8827

Freight train locomotive with tender · Model of German Federal Railways' class 41 · Wheel arrangement 2-8-2 · Length over buffers 112 mm (4-³/₁₆"

8896 ★ new

Tank locomotive · Model of German Federal Railways' class 86 · Wheel arrangement 2-8-2 · Three working headlights at each end · Red painted

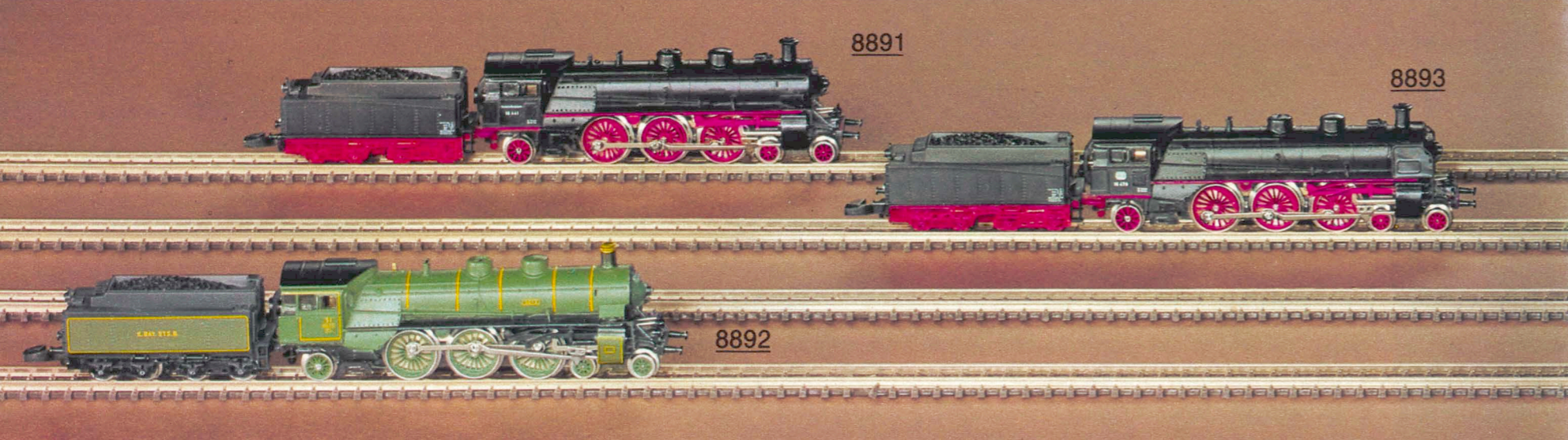
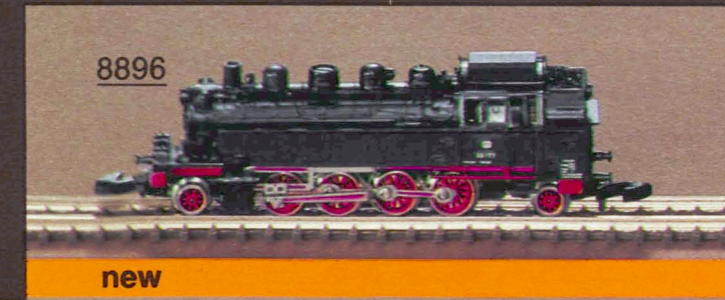
driving rod assemblies · Automatic coupling at each end · Length over buffers 63 mm (2-¹/₂"

☞ = 60210 (rear)

8803

Passenger train locomotive with tender · Model of German Federal Railways' class 24 · Wheel arrangement 2-6-0 · Length over buffers 82 mm (3-¹/₄"

■ The class 86 locomotive was produced by various manufacturers between 1928 and 1943. The former German State Railways intended it to be used in various roles. It was to pull passenger and freight trains on branch lines and to achieve good average speeds over hilly routes. Of the 774 locomotives of the former railways, 385 survived the war to be taken over by German Federal Railways.



mini-club locomotives must only be powered by Märklin power packs 6711, 6727 or 6731 (with maximum traction voltage 8 V) or by the power packs included in the train sets.

The locomotives are fitted with radio interference suppressors. In conjunction with the suppressors fitted in the Märklin power packs and in feeder track sections 8590, these ensure a high standard of suppression.

8892

Express locomotive with tender · Model of the former Royal Bavarian Railways' S 3/6 · Wheel arrangement 4-6-2 · Length over buffers 106 mm (4-³/₁₆"

8893

Express locomotive with tender · Model of German Federal Railways' class 18^a · Wheel arrangement 4-6-2 · Length over buffers 106 mm (4-³/₁₆"

8895

Tank locomotive · Model of German Federal Railways' class 74 · Wheel arrangement 2-6-0 · Coupling hook in front · Length over buffers 55 mm (2-¹/₁₆"

8800

Tank locomotive · Model of the class 89 · Wheel arrangement 0-6-0 · Automatic coupling at each end · Length over buffers 45 mm (1-³/₄"

8885

Express locomotive with tender · Model of German Federal Railways' class 003 · Wheel arrangement 4-6-2 · Length over buffers 112 mm (4-³/₁₆"

According to the well-known "Guinness Book of Records" the world endurance record for model railroads was 440.7 km (273.8 miles), covered in about 300 hours. Our mini-club locomotive 8885, with 6 express coaches, covered no less than 720 km (447 miles), or the distance from Stuttgart to Hamburg, in 1219 hours, without stopping. This record was set up in an impartial testing institution.



Examples of train composition:



Electric locomotives

Although only 40% of its rail network is electrified, by concentrating on major routes German Federal Railways has enabled 80% of all its transportation to be electric. Electric power is not only clean; being produced mainly in coal-burning power stations it is also reasonably independent of world energy crises. The railroad is also the most economical means of transport – the entire energy consumption of German Federal Railways is only about the same as the total energy used in West Berlin.

While rail transportation requires only 0.8% of our energy resources, road traffic accounts for 8% – ten times as much energy but achieving only 2.3 times as much transportation.

Features of electric locomotives

Remote control for forward and reverse drive · Both trucks driven · Three working headlights at each end, changing over with change of direction · Change-over switch for selecting catenary or track supply · 2 spring-loaded pantographs on roof · Automatic coupling at each end · Die cast zinc frame · Windows inset in plastic frames

⚡ = 8953

8842

Electric express locomotive · Model of German Federal Railways' class 111 · Wheel arrangement B-B · Length over buffers 76.8 mm (3")

8857

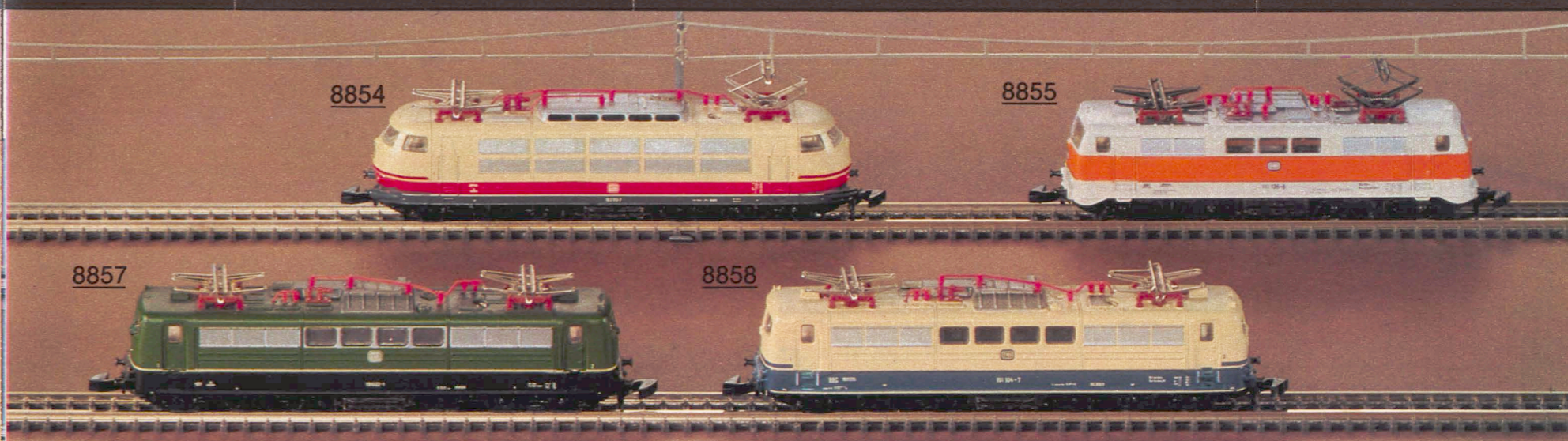
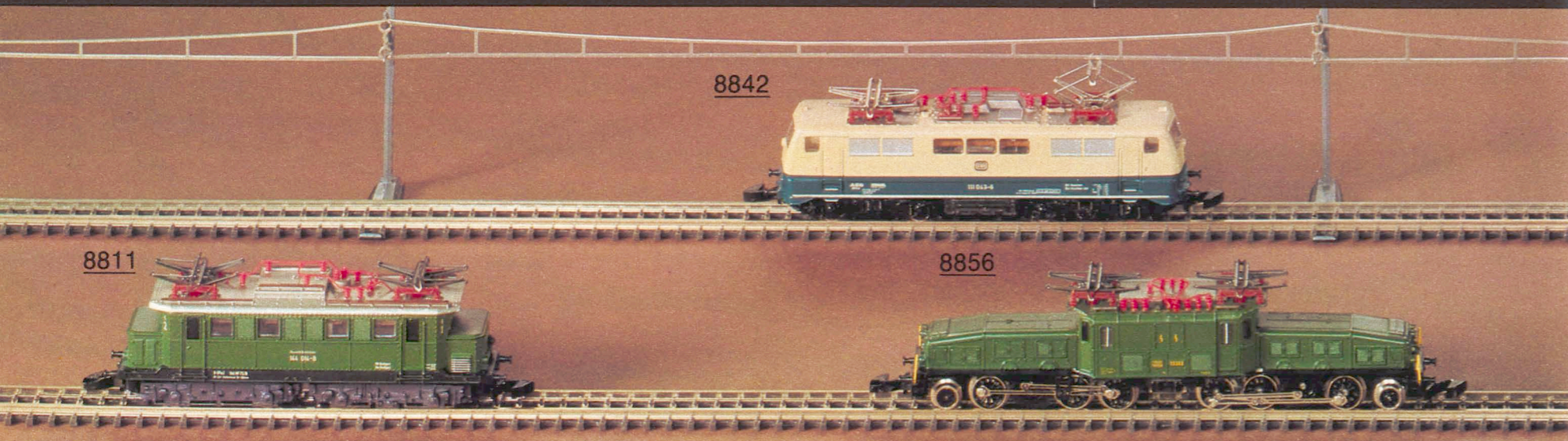
Electric freight train locomotive · Model of German Federal Railways' class 151 · Wheel arrangement C-C · Length over buffers 88 mm (3-1/2")

8855

Electric locomotive · Model of German Federal Railways' class 111 used on urban high speed services in the Rhine and Ruhr districts · Wheel arrangement B-B · Length over buffers 76.8 mm (3")

8854

Electric high speed locomotive · Model of German Federal Railways' class 103 · Wheel arrangement C-C · Length over buffers 88 mm (3-1/2")



new

8811 

Electric passenger train locomotive · Model of German Federal Railways' class 144 · Wheel arrangement B-B · Length over buffers 68 mm (2-1/16")

■ In 1931 the German State Railways ordered 20 B-B locomotives from the firm of Siemens-Schuckert. They were intended for use on passenger and light freight services on the Augsburg-Stuttgart route, which was to be electrified. By 1945 a total of 174 class E 44 machines had been delivered. German Federal Railways bought another 7 of this well-proven type even after 1945.

The E 44 was soon being used on all the electrified parts of the German Railways. Because of its versatility it became regarded as the workhorse of the railroads. It covered an average distance of 20,000 km (12,440 miles) per month.

The E 44 is driven by 4 axle-hung motors located in two double-axled trucks. All tractive and decelerative forces are absorbed by the trucks, which are coupled together. The total power is 1860 kW continuous rating, or 2200 kW hourly rating, and the maximum speed 90 km/h (56 mph).

8856

Electric freight train locomotive · Model of Swiss Federal Railways' (SBB) Be 6/8^{III} locomotive "Crocodile" · Wheel arrangement 1'C-C1 · Length over buffers 91 mm (3-5/8")

The "Crocodile" is one of the most interesting locomotives in the world. This mighty machine is 91 mm (3-5/8") long even at mini-club scale. Its articulated construction enables it to negotiate any mini-club curve without trouble. The three body sections, i.e. the center and two end parts, are finely detailed. Insulators electrical cables on the roof and handrails on the buffer beams have been fitted.

■ Swiss Federal Railways (SBB) have to contend with difficult terrain, with a rail network covering 3000 km (1875 miles) which has about 3600 bridges, 250 tunnels and inclines of as much as 38%. These conditions, together with the availability of hydro-electric power, led to the rapid development of railroad electrification in Switzerland. After initial trials in 1904, scheduled electric services started on 1 December 1907 on the Seebach-Wettingen route.

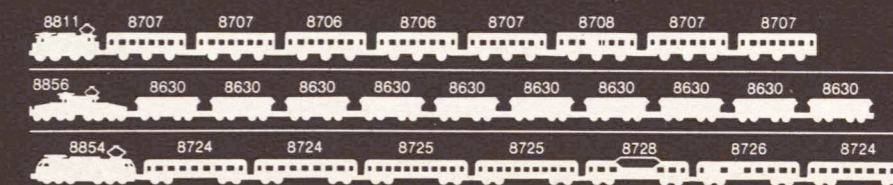
Shortage of coal spurred further development. The Gotthard line was electrified in 1916. By 1936, 73% of the Swiss railroad system was equipped with overhead lines, and the overhead line has covered the entire network since 1960.

40% of all the rail traffic passing across the Alps uses the Gotthard line. In the early 1920s the growth in freight traffic

led to the requirement for locomotives able to undertake two return journeys between Arth-Goldau and Chiasso within 28 hours. Thus the locomotive with the designation Ce 6/8^{II} was born. From this developed the famous heavy freight locomotive Be 6/8^{III}, the "Crocodile".

Its performance: on level track it could pull a 2000 ton load at 60 km/h (37 mph), and it could pull 520 tons (or 15 cars) up an incline of 26% at 40 km/h (25 mph).

Examples of train composition:



8858

Electric freight train locomotive · Model of German Federal Railways' class 151 · Wheel arrangement C-C · Length over buffers 88 mm (3-1/2")



Diesel locomotives · Railcars

Features of diesel locomotives and railcars

Remote control for forward and reverse drive · All axles driven · Three working headlights at each end (except for 8802 and 8864) · Automatic coupling at each end (except for 8802) · Die cast zinc frame

⚡ = 8953

8864

Diesel locomotive · Model of German Federal Railways' class 260 · Wheel arrangement 0-6-0 · Metal body · Length over buffers 49 mm (1-9/16")

■ The class 260 dates from 1955. The original designation was V 60. The 12 cylinder 478 kW diesel engine is situated under the long hood. Under the short hood there are air tanks and fuel tanks.

Steam enthusiasts will be glad to know that pre-warming of the 260's power plant still depends partly on the use of a coke fire.

8816

Railbus · Model of German Federal Railways' type 798 · Length over buffers 62 mm (2-7/16")

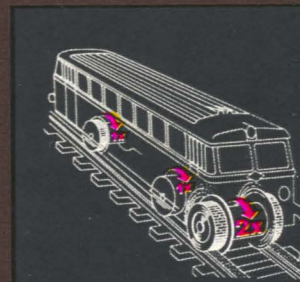
To aid safe and smooth switching, the 260 is fitted with a standard radio system enabling communication between the driver, the switching controller and other points. The locomotive can also be operated by radio remote control.

Like the class 261, the 260 is also used on freight services.

8817

Trailer for railbus · Model of German Federal Railways' type 998 · Length over buffers 62 mm (2-7/16")

How the track-cleaning railcar works



8802

Track-cleaning railcar · 2 driven axles · Automatic coupling at car end · Length over buffers 62 mm (2-7/16")

This vehicle has two driven axles. The rear wheels are ridged to provide extra friction. Two track-cleaning ridged wheels are located ahead of the front axle. These rotate faster than the driving wheels, causing the dirt on the track to be thrown off.



8864



8816



8817



8802



8875



8874



8875

Diesel locomotive · Model of German Federal Railways' class 216 · Wheel arrangement B-B · Three working headlights at each end, depending on direction of motion · Length over buffers 75 mm (3")

8874

Diesel locomotive · Model of German Federal Railways' class 216 · Wheel arrangement B-B · Three working headlights at each end, depending on direction of motion · Length over buffers 75 mm (3")

■ In the mid 1950s, German Federal Railways began converting from steam to diesel and electric locomotives. This program resulted in an unusually limited range of locomotive types. One of these, developed by the Krupp industrial and steel corporation of Essen, was the standard mainline diesel locomotive 216, which appeared in 1956.

The following items are required for locomotive maintenance:

7199

Bottle of oil · Containing about 10 cc lubricating oil for locomotives and cars

8953

Lighting fitting · With 10 V bulb · For use in locomotives which can take lighting

8987

Pair of carbon brushes for locomotives 8800, 8803, 8864 and 8895

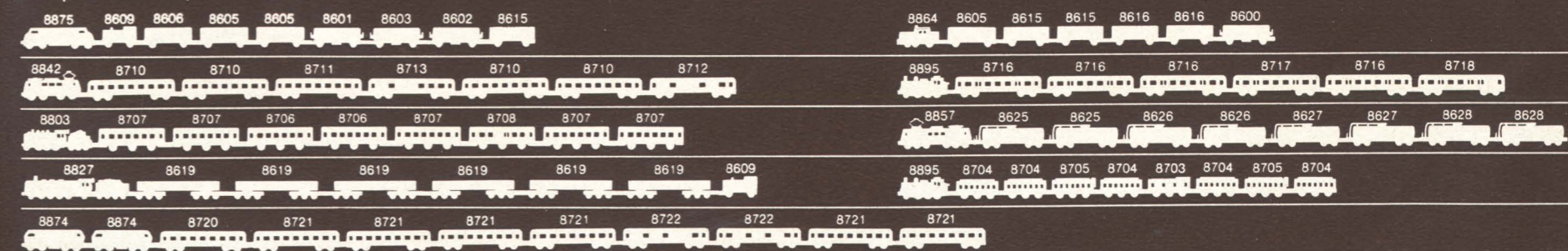
8988

Pair of carbon brushes for locomotives 8802, 8816, 8854, 8857, 8858, 8874 and 8875

8989

Pair of carbon brushes for locomotives 8811, 8827, 8842, 8855, 8856, 8885, 8891, 8892, 8893 and 8896


Examples of train composition:




Passenger cars

Passenger cars of German Federal Railways
Models of German Federal Railways · 3 axles · Windows inset in plastic frames

8706 
Passenger coach · AB3yge · 1st and 2nd class · Length 61 mm (2-3/8")

8707 
Passenger coach · B3yge · 2nd class · Length 61 mm (2-3/8")

8708 
Passenger coach with baggage compartment · BD3yge · 2nd class · Length 61 mm (2-3/8")


■ In the early 1950s there were a great many obsolete and damaged two and three axled passenger coaches in the reserve stocks of German Federal Railways. By modifying the underframes of several thousand old coaches, new types of three axled coach were developed, consisting of 1st and 2nd (mixed) class cars, 2nd class cars, and 2nd class cars with baggage compartments. These cars were fitted with beaded rubber interconnecting walkways.

Passenger cars of the former German State Railways
Models of the former German State Railways · 4 axles · Windows inset in plastic frames

8731
Express coach · C4ü bay 11 · 3rd class · Length 87 mm (3-3/8")

8732
Express baggage car · Pw4ü bay 09 · Length 78 mm (3-1/16")

Passenger cars of German Federal Railways
Models of German Federal Railways · 3 axles · Windows inset in plastic frames

8703 
Baggage car · Formerly Pw3-pr02 · Length 57 mm (2-1/4")

8704
Compartment car · Formerly BC3-pr03 · Length 57 mm (2-1/4")

8705
Compartment car with brakeman's cab · Formerly B3-pr03 · Length 57 mm (2-1/4")

■ The compartment cars of German Federal Railways were originally Prussian Railways types, and some of them were equipped with a brakeman's cab.

8706

8707

8708

new

new

new



8716

8717

8718



Models of German Federal Railways · 4 axles · Windows inset in plastic frames · Length 120 mm (4-3/4")

■ These local passenger service coaches of German Federal Railways are sometimes called "Silberlinge" (Silver cars). The car bodies are made of stainless steel with peacock s-eye pattern.

8716
Local passenger service coach · Bnb · 2nd class

8717
Local passenger service coach · ABnb · 1st and 2nd class

8718
Local passenger service coach with baggage compartment and control compartment · BDnrzf · 2nd class · Three headlights and red tail-lights, operating in accordance with the direction of motion

■ Local service multiple-unit trains consist of a locomotive, a number of intermediate cars, depending on the traffic density, and a control car at the other end of the train. All the driver has to do at the end of the line is to get out of the locomotive and into the control car and he can then drive back again.

With the locomotive pulling (i.e. in front), the control car shows two red tail-lights.

With the locomotive pushing (i.e. with the control car leading), the control car shows three white headlights.

Passenger cars of the former German provincial railways

Models of the Württemberg Railway · 2 axles · Platform and entrance at each end · Windows glazed with "cellon" panes · Length 60 mm (2-3/8")

8700
Passenger cars

8701
Passenger cars

Model of the Bavarian Railway · 4 axles · Windows inset in plastic frames · Length 87 mm (3-3/8")

8730
Express coach · Type CCü of the former Royal Bavarian Railways · 3rd class

8731

8732



8704

8703

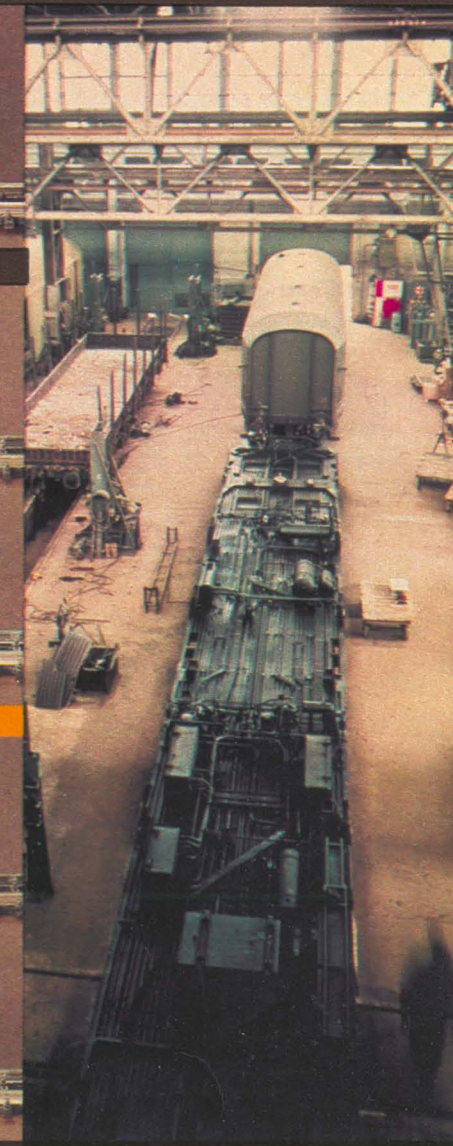


new

8700

8701

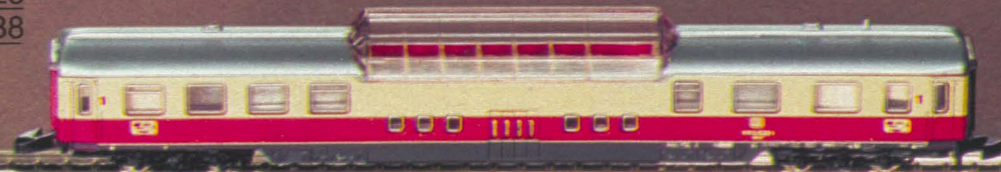
8730



8724
8734



8728
8738



8725 | 8735



8726 | 8736



8714



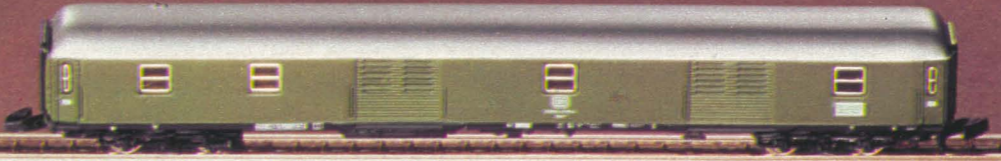
8710



8711



8712



Passenger cars of German Federal Railways

All these models have the following features: 4 axles · Windows inset in plastic frames · Length 120 mm (4-3/4")

There are two versions of mini-club TEE coach: those with interior lighting and those without.

8724 without interior lighting

8734 with interior lighting

TEE compartment car · Avm

8725 without interior lighting

8735 with interior lighting

TEE open-interior coach · Apm

8726 without interior lighting

8736 with interior lighting

TEE dining car · WRm

8728 without interior lighting

8738 with interior lighting

TEE dome car · ADm · Transparent observation dome

TEE coaches provide the best quality of passenger transportation to be found on German Federal Railways. The coaches have only 1st class open-interior seating accommodation which is fully air-conditioned and to the highest standards of comfort.

Intercity trains travel at maximum speeds of 160 km/h (100 mph) or even 200 km/h (125 mph) on suitable track.

8714

Automobile transporter · DDm 915 · Loaded with 8 miniature automobiles

Passenger/automobile trains usually consist of a combination of automobile transporters and express coaches. Automobile drivers drive their vehicles onto the loading decks of the transporters by means of ramps. The vehicle occupants can enter and leave their vehicle either via the ramps or by means of ladders at the sides of the transporters.

8710

Express coach · Aüm · 1st class

8711

Express coach · Büm · 2nd class

8712

Express baggage car · Düm

8713

Express dining car · WRüm

8720

Express coach · Aüm · 1st class

8721

Express coach · Büm · 2nd class

8722

Express baggage car · Düm

8723

Express dining car · WRüm

8713



8723



8720



8722



8721



Freight cars

German Federal Railways have a stock of about 290,000 freight cars for national transportation, as well as about 16,000 maintenance and special pur-

pose cars. There are also about 50,000 privately owned freight cars in use on the Federal Railways.

About 65% of the freight cars on national transportation services are conventionally designed, and 35% are special designs.

The proportion of specially designed freight cars appears to be increasing. The Federal Railways have to respond to the market situation, where customer-

oriented and strengthened freight cars are the requirements. Designs have to take into account not only price and running life, but also factors such as the

optimum protection arrangements for the freight and automated loading and unloading systems.



8600

Refrigerated car - German Federal Railways' type lchqrs - Length 54 mm (2-1/8")

8601

Beer car - Dortmund Union - Length 54 mm (2-1/8")

8602

Beer car - Spatenbräu München - Length 54 mm (2-1/8")

8603

Beer car - Kulmbacher Mönchshof-Bräu - Length 54 mm (2-1/8")

8604

Beer car - Kulmbacher Reichelbräu - Length 54 mm (2-1/8")



8607

Beer car - Feldschlösschen - Length 54 mm (2-1/8")

new

8608 new

Beer car - Carlsberg - Length 54 mm (2-1/8")

8605

Box car - German Federal Railways' type Gbrs - Length 54 mm (2-1/8")

8615

Container car - DB - Length 54 mm (2-1/8")

8616

Container car - Sealand - Length 54 mm (2-1/8")

8609

Freight train baggage car - DB-Dg - Doors on each side which will open - Length 40 mm (1-9/16")

8610

Low-sided car - Length 54 mm (2-1/8")

8622

Open freight car - German Federal Railways' type Omm 52 - Length 54 mm (2-1/8")

8606

Box car - German Federal Railways' type lbbis - Length 54 mm (2-1/8")

8630

Open self-unloading freight car with steering trucks - German Federal Railways' type Fads 176 - Length 53 mm (2-1/16")

8627

Tank car - Aral - 4 axles - Length 75 mm (3")

8626

Tank car - Esso - 4 axles - Length 75 mm (3")



8609

8610

8622

8606

8630



8611



8612



8613



8614



8625



8628

Development of a new freight car takes 4-5 years from the initial requirement until the start of series production. The typical freight car of German Federal Railways has a working life of 20 to 30 years. Plans for future freight cars therefore have to take into account not only the 5 year lead time but also whether the demand for a particular type of freight car will exist 20 to 30 years later.

8611

Tank car - Shell - 2 axles - Length 40 mm (1-9/16")

8612

Tank car - Esso - 2 axles - Length 40 mm (1-9/16")

8613

Tank car - Aral - 2 axles - Length 40 mm (1-9/16")

8614

Tank car - BP - 2 axles - Length 40 mm (1-9/16")

8625

Tank car - Shell - 4 axles - Length 75 mm (3")

8620

Well car - Loaded with transformer - Length 154 mm (6-1/16")

8628 new

Tank car - BP - 4 axles - Length 75 mm (3")

new



8619

8621

8620



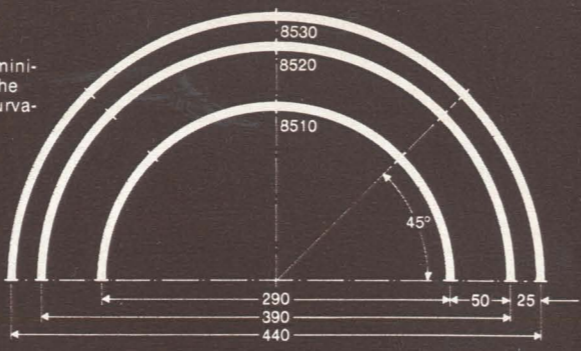
Track construction

The track system

With a gauge of 6.5 mm (1/4"), the overall width of Märklin mini-club track sections is about 11.5 mm (7/16"). The height is about 2.5 mm (1/8"). The accurately dimensioned nickel silver rails are mounted on plastic cross-ties. The track sections are joined to each other by means of rail joint clips, as on larger scale railroads. The rigidity of the track joints is increased by means of an additional claw coupling on the cross-ties.

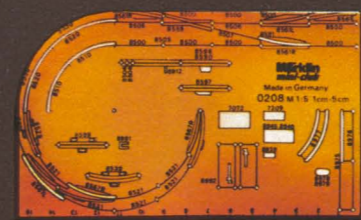
This diagram shows the 3 Märklin mini-club track circles, with their radii, the distances between them and the curvature of the sections.

Circle 8510 = 8 track sections
 Circle 8520 = 8 track sections
 Circle 8530 = 8 track sections



Track planning

The track plan stencil is a great help to anyone who wants to design an individual layout. The stencil not only aids track design; it can help when choosing what mini-club track material to buy.



0208
 Track plan stencil for mini-club tracks
 Scale 1:5

It is easy to calculate the number of track sections required to complete a track circuit. The angle turned through by the track already laid will be something less than 360°. If the difference between this angle and 360° is divided by 30° or 45°, the number of track sections needed to complete the circuit can be found.

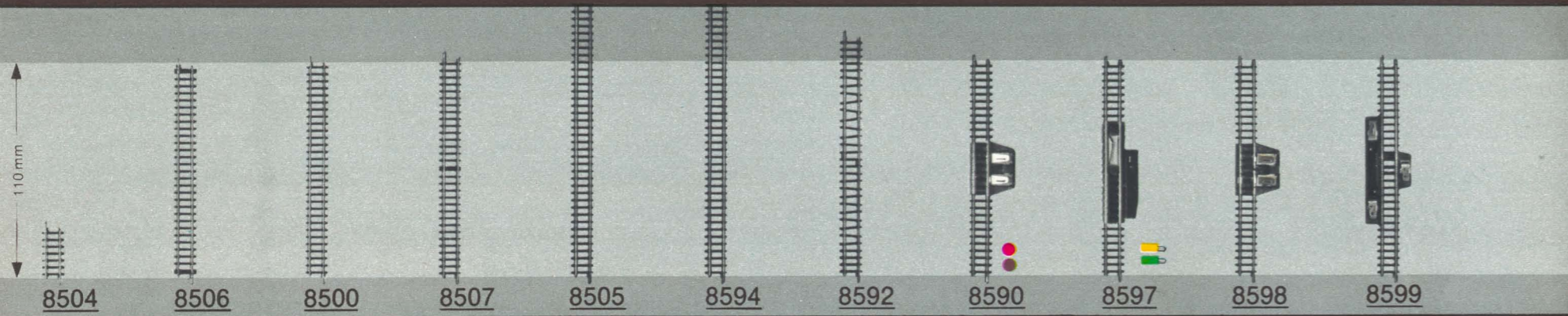
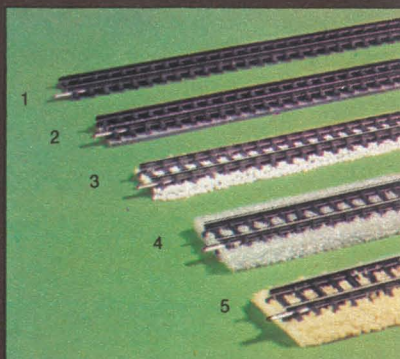


0292
 Booklet - 54 pages on track layouts, electrical wiring, and overhead line and bridge construction - English text

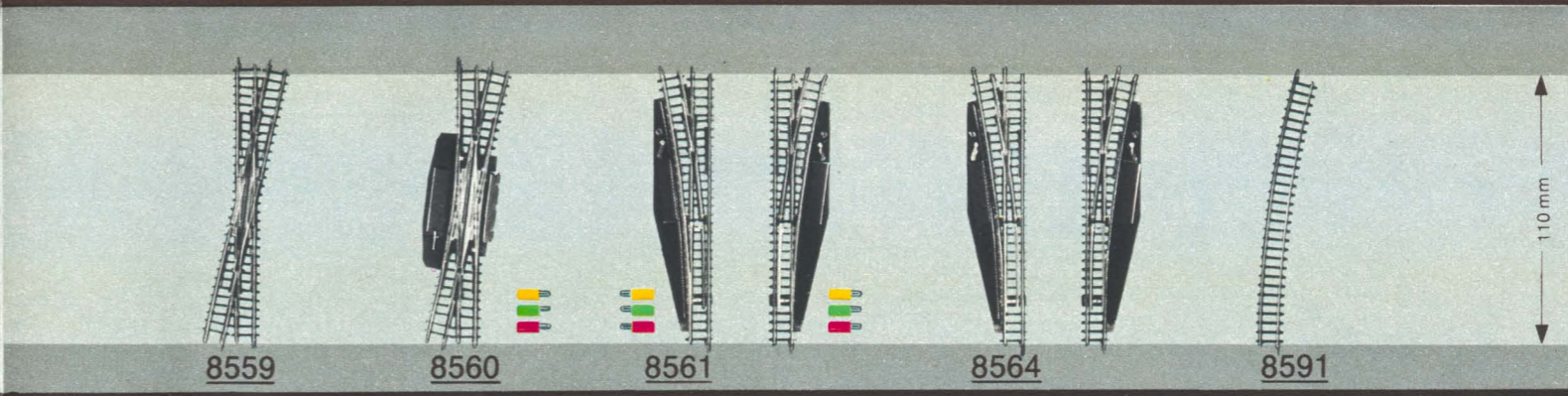
Track laying

As with the larger gauge railroads, mini-club tracks may be laid in all sorts of ways, from the simple track on a flat surface with no embellishments to the highly realistic type complete with embankments and roadbed.

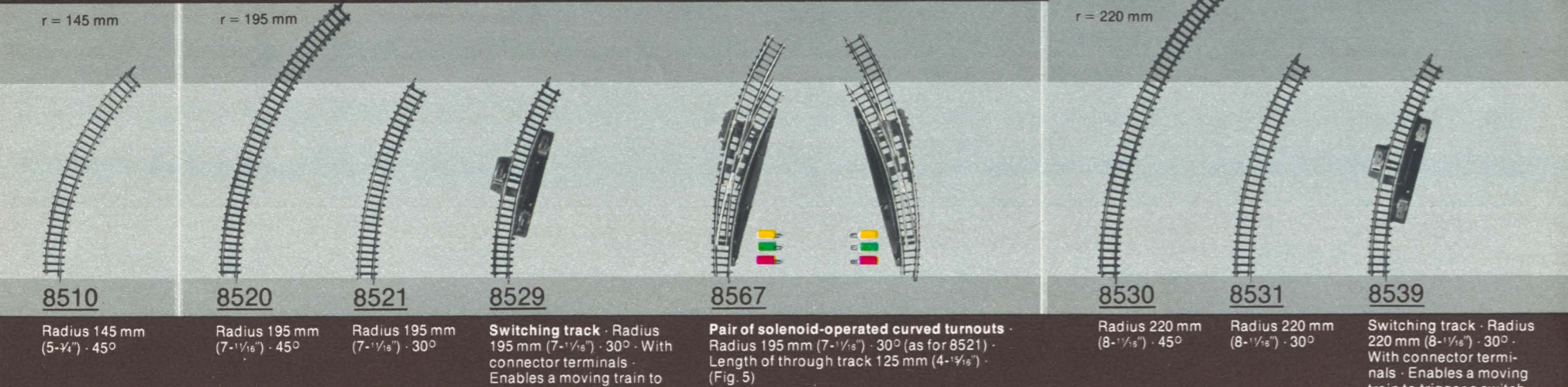
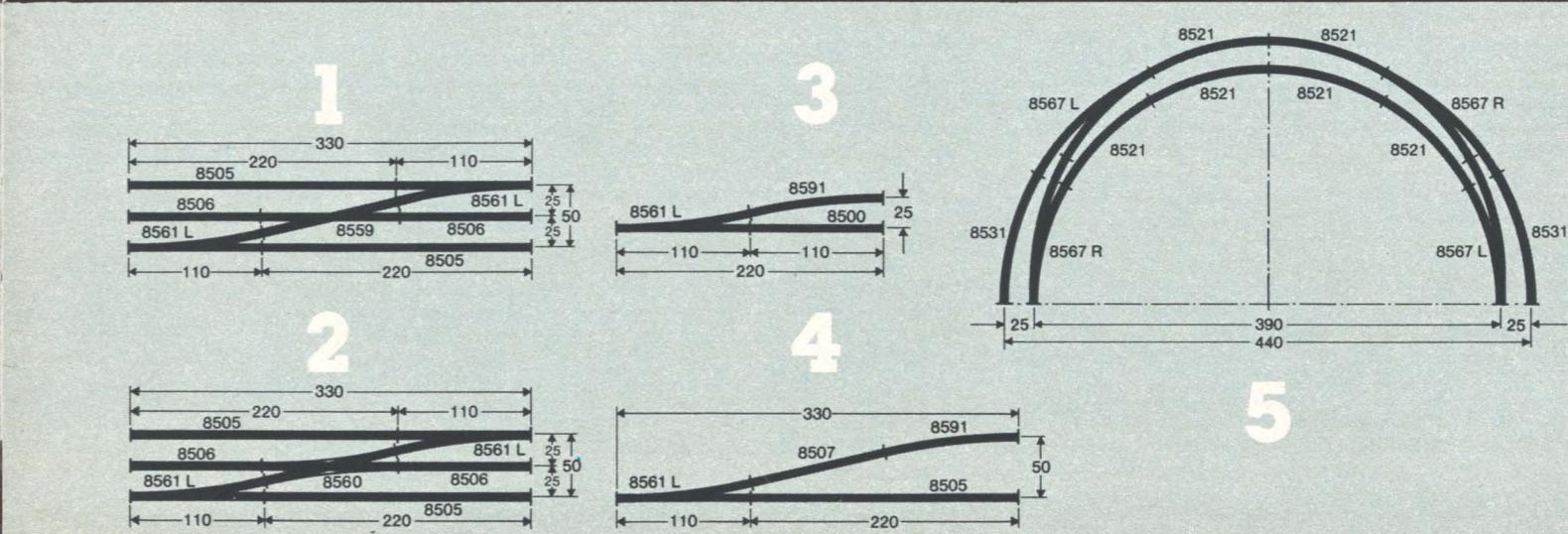
1. not fixed
2. on double surface adhesive tape
3. double surface adhesive tape with ballast
4. foam material base
5. heavy roadbed



8504 Length 25 mm (1")
8506 Length 108.6 mm (4-3/16") - Make-up length for use with crossing 8559 and double slip switch 8560
8500 Length 110 mm (4-3/8")
8507 Length 112.8 mm (4-7/16") - The same length as the diagonal length of crossing 8559 and double slip switch 8560
8505 Length 220 mm (8-13/16")
8594 Length 660 mm (2 ft 2") - Can be made into a flexible track by cutting through cross-ties
8592 Length variable from 100 mm (3-15/16") to 120 mm (4-7/16") - For use as a make-up length
8590 Feeder track - With radio interference suppressor - 2 terminals for connecting up the traction current leads which are included - Length 110 mm (4-3/8")
8597 Uncoupling track - With solenoids built in - For operation either by hand lever or remotely by means of position control box 7072 - Length 110 mm (4-3/8")
8598 Isolating track - With connector terminals - One rail has an isolating gap - Length 110 mm (4-3/8")
8599 Switching track - With connector terminals - Enables a moving train to trigger a switching function - Length 110 mm (4-3/8")



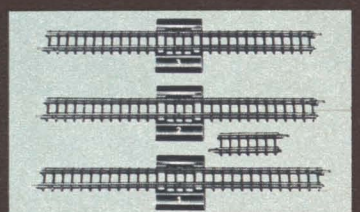
8559 Crossing - Length 112.8 mm (4-7/16") - 13° - (Fig. 1)
8560 Double slip switch - Length 112.8 mm (4-7/16") - 13° - Radius 323 mm (1 ft 3/4") - (Fig. 2)
8561 Pair of solenoid-operated turnouts - Length 110 mm (4-3/8") - 13° - Radius 490 mm (1 ft 7-1/4") - (Figs. 3 and 4)
8564 Pair of manually-operated turnouts - Length 110 mm (4-3/8") - 13° - Radius 490 mm (1 ft 7-1/4") - (Figs. 3 and 4)
8591 Radius 490 mm (1 ft 7-1/4") - 13° - Matches the curve of turnouts 8561 and 8564



8510 Radius 145 mm (5-1/4") - 45°
8520 Radius 195 mm (7-1/16") - 45°
8521 Radius 195 mm (7-1/16") - 30°
8529 Switching track - Radius 195 mm (7-1/16") - 30° - With connector terminals - Enables a moving train to trigger a switching function
8567 Pair of solenoid-operated curved turnouts - Radius 195 mm (7-1/16") - 30° (as for 8521) - Length of through track 125 mm (4-1/16") - (Fig. 5)
8530 Radius 220 mm (8-11/16") - 45°
8531 Radius 220 mm (8-11/16") - 30°
8539 Switching track - Radius 220 mm (8-11/16") - 30° - With connector terminals - Enables a moving train to trigger a switching function

The traditional method of laying railroad track, with a framework of rails and cross-ties being laid on a bed of crushed rocks, is still widely used today. The advantages of this method are that it is relatively cheap, it provides good noise absorption and it is easy to repair (when subsidence of the foundations occurs, for example).

8974
 Re-railing ramp - Makes it easier to set vehicles on the track



8993
 Reversing loop kit - Allows one-way travel on reversing loops when tracks are arranged in the sequence of their identifying numbers

8999
 100 track fixing nails - 0.5 x 6 mm



8991
 Bumper for clipping onto the rails - Length 15 mm (5/8")

8954
 Pack with 10 isolating and 20 conducting jointing clips

SET extension program

The easiest way to make a start with the mini-club system is with one of the basic sets 8158-8161 or 8163 S-8166 S.



8163
Freight train with power pack S

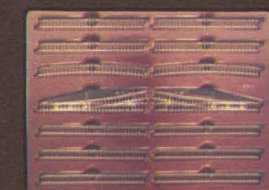
Extending 8163 S

The first stage is an extension set E 8190 or E 8191. Then there are three further track sets with which to build up a mini-club layout:

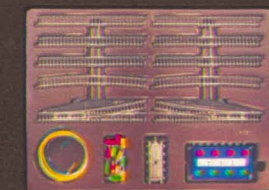
Double track set T1 8192
Station track set T2 8193
Switching track set T3 8194

The three track sets T1, T2 and T3 can be added in any order. One way of doing it is shown on this page.

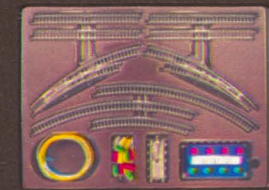
Basic set 8158-8161 includes all the track material of S, E and T3, apart from one parking track. Sets T1 and T2 can be used to supplement it. Both basic sets can of course also be extended in accordance with individual wishes.



8190
Extension set E with manually-operated turnouts. Comprises: 1x8564 · 2x8591 · 10x8500 · Assembly instructions



8191
Extension set E with solenoid-operated turnouts. Comprises: 1x8561 · 2x8591 · 10x8500 · 1x7072 · 1x7209 · Leads, sleeves, plugs · Assembly instructions



8192
Double track set T1. Comprises: 1x8567 · 2x8521 · 4x8530 · 6x8500 · 1x7072 · 1x7209 · Leads, sleeves, plugs · Assembly instructions



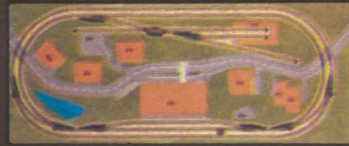
8193
Station track set T2. Comprises: 1x8567 · 2x8521 · 2x8504 · 6x8500 · 1x7072 · 1x7209 · Leads, sleeves, plugs · Assembly instructions



8194
Switching track set T3. Comprises: 1x8560 · 1x8561 · 10x8500 · 1x7072 · 1x7209 · 4x8991 · Leads, sleeves, plugs · Assembly instructions

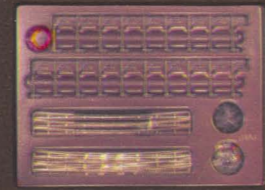
8930

Toporama for the mini-club SET extension program · Model railroad landscape on cloth · Multi-color printing · The track layout up to stage T3 (8194) is printed on · Can be used from stage E (8190, 8191) onwards · Size 50x120 cm (1 ft 7-3/4"x3 ft 11-1/4")

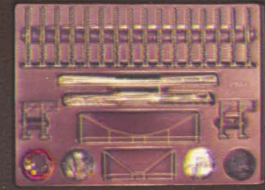


Catenary system kits

Operation of electric locomotives on a model railroad layout can only be truly realistic when a genuine working catenary system is used. Catenary system kits 8198 for S+E and 8199 for



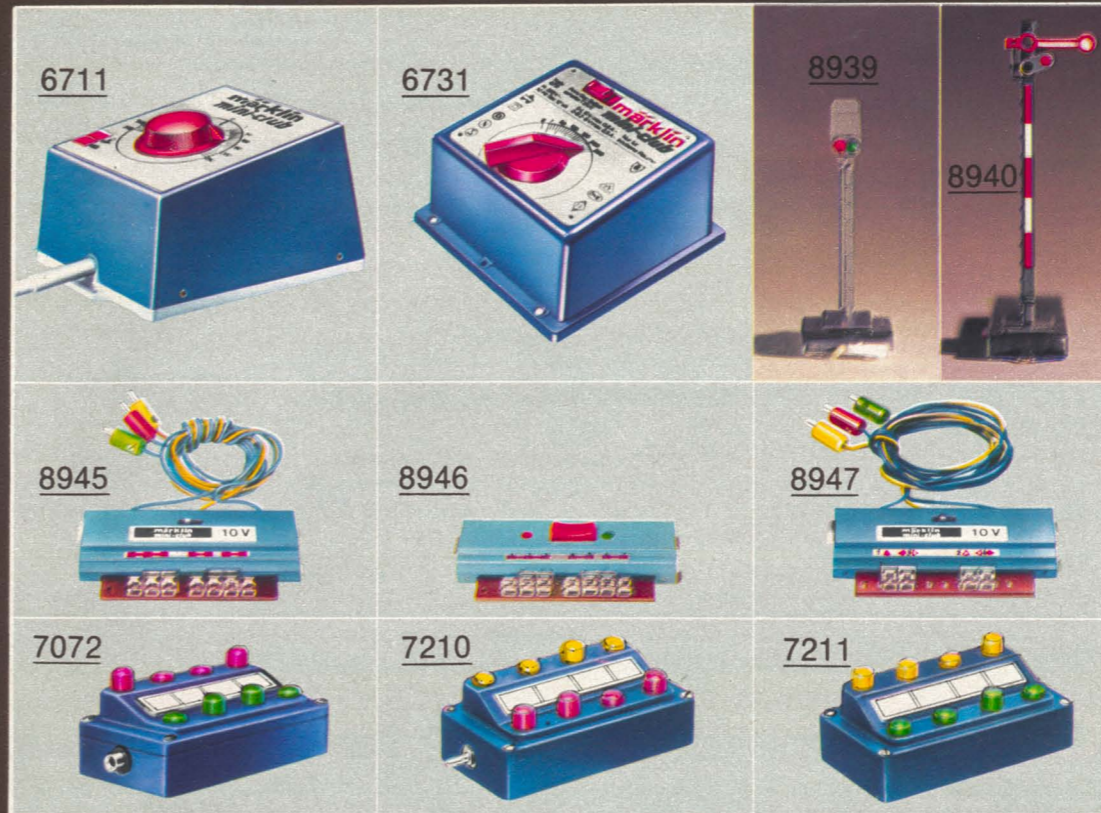
8198
Catenary system kit S+E. Contains all items required for the construction of overhead line above sets S+E. Comprises: 18x8911 · 1x8912 · 9x8922 · 11x8923 · 1x8926



8199
Catenary system kit T1+T2+T3. Supplements 8198 to cover T1-T3. Comprises: 4x8911 · 16x8914 · 3x8921 · 6x8922 · 24x8923 · 2x8924 · 6x8925 · 1x8926 · 1x8927

T1+T2+T3 not only provide an easy initiation into the use of the catenary system along with the SET program, they also enable individually-designed layouts to be "electrified".

Train control



6711 220 Volt
Märklin mini-club power pack for use with AC power supply · Single knob control for adjusting the **traction voltage (DC)** between 0 and 8 V and for determining the direction of travel by rotating the knob from its center position · Power output in the traction circuit up to 8 VA, and in the **lighting circuit (AC)** about 12 VA at 10 V · Blue plastic case · Weight 1.65 kg · Dimensions 155x110x88 mm (6-1/8"x4-3/8"x3-1/2")

6720 100 Volt Japan
6727 110 Volt (60 Hz) USA · UL-tested
6729 240 Volt

Märklin mini-club power pack for use with AC power supply · Output 12 VA · **Traction voltage (DC)** adjustable between 2 V and 8 V · Polarity reversing switch for selecting the direction of travel · **Lighting voltage (AC)** 10 V · Blue plastic case · Weight 1.2 kg · Dimensions 125x135x75 mm (4-9/16"x5-9/16"x3")

8939
Color light home signal · Signal lights change from red to green · 2 bulbs · Operated by universal remote control switch 8945 or by manual signal switch 8946 · Height 34.5 mm (1-3/8")
⊗ = 8953

8940
Home signal with 1 semaphore arm · Signal lights change from red to green · Operated by double solenoid · Used for train control · Operated by position control box 7072 or a switching track section · Height 45 mm (1-3/4")
⊗ = 8953

8945
Universal remote control switch with 2 single-pole switches and one changeover switch for various circuits · The universal remote control switch can automatically perform a variety of functions (up to 3 simultaneously) · Examples are given in booklet 0292 · Operating voltage 10 V · Double solenoid operation · Operated by a switching track section, a position control box or by the hand lever · Width 30 mm (1-1/8") · Length 70 mm (2-3/4") · Height 8 mm (5/16")

8946
Manual signal control panel with 2 single-pole switches and one changeover switch, used for controlling the change of signal lights in signal 8939, for example, and for controlling traction current · Width 30 mm (1-3/8") · Length 70 mm (2-3/4") · Height 8 mm (5/16")

8947
Double-pole changeover switch (polarity reversing switch) · Operating voltage 10 V · Double solenoid operation · Operated by a switching track section, a position control box or by the hand lever · Width 30 mm (1-1/8") · Length 70 mm (2-3/4") · Height 8 mm (5/16")

7072
Position control box with 8 sockets for connecting 4 double-solenoid operated articles · The position of signals, turnouts, etc. can be seen from the position of the push buttons · Length 80 mm (3-1/8") · Width 40 mm (1-9/16")

7210
Circuit-breaker box with indicator push buttons for distributing current to 4 traction current or lighting circuits · Length 80 mm (3-1/8") · Width 40 mm (1-9/16")

7211
Circuit-breaker box for switching 4 different traction or lighting circuits on and off by indicator push buttons · Length 80 mm (3-1/8") · Width 40 mm (1-9/16")

8954
Pack with 10 isolating and 20 conducting jointing clips for electrical isolation of track sections and electrical connection of rails respectively

Multiple train control adds interest and versatility to any model railroad layout. The control of several trains on a single layout is achieved by the use of separate electrical circuits. Every track circuit, not electrically connected to another one, is provided with traction voltage from its own power pack.

Electrical leads

The copper conductor in these stranded leads consists of 24 separate strands each of 0.10 mm (0.004") diameter, giving an overall cross-sectional area of 0.19 mm² (0.03 sq"). This can withstand even a short-circuit current.

7100
Lead · Single core · Gray · 10 m (33 ft)

7101
Lead · Single core · Blue · 10 m (33 ft)

7102
Lead · Single core · Brown · 10 m (33 ft)

7103
Lead · Single core · Yellow · 10 m (33 ft)

7105
Lead · Single core · Red · 10 m (33 ft)

Sleeves

7111 = brown
7112 = yellow
7113 = green
7114 = orange
7115 = red
7117 = gray

Plugs with side sockets

7131 = brown
7132 = yellow
7133 = green
7134 = orange
7135 = red
7137 = gray

7000
Stapler · Bag of 50 · For fixing leads to a wooden base

7209
Distribution strip · With 11 single sockets · Size 50x20 mm (2"x3/4")

After construction of the track layout, it is time to see to the electrical wiring. This is easy with Märklin electrical leads. The controllable DC traction current is supplied to the rails by red leads and the return path, which is grounded, is by way of brown leads.

The constant voltage lighting current (AC) is supplied via the yellow lead to the load and returns via the gray (grounded) lead to the power pack. There is an exception to this: solenoid-operated items are connected to the switch by two blue leads, one having a red and one a green plug, and the switch is connected to the power pack again by a gray lead.

Catenary system

8911

Mast for overhead line - Basic unit with supporting plate - Height 38 mm (1-1/2")

8912

Feeder mast for power supply - With supporting plate and connector lead - Height 38 mm (1-1/2")

8913

Bridge mast for clipping onto the side of bridges and ramp sections - Height 41 mm (1-5/8")

8914

Tower mast with recesses for hooking in cross-spans 8924 and 8925 - Base 7 x 13 mm (1/4" x 1/2") - Height 61 mm (2-3/8")

8922

Contact line section for straight and curved tracks - Length 165 mm (6-1/2")

8923

Contact line section - Length adjustable between 150 and 180 mm (5-7/8" - 7-1/8")

8924

Cross-span - For hooking into tower masts - Spans 5 tracks - Span approx. 123 mm (4-7/8")

8925

Cross-span - For hooking into tower masts - Spans 3 tracks - Span approx. 72 mm (2-7/8")

8921

Pack of contact line insulators - For isolating contact line sections from cross-spans - Comprises 8 white and 2 gray insulators - The white insulators will hold 2 contact line sections, the gray ones 3

8926

Pack of 8 isolating sections and 6 connecting springs - These are required for making isolating points in the overhead line, and at branches above turnouts

8927

Pack of contact wire terminals - Contains 2 screw terminals with and 3 without leads - For feeding power into catenary sections or for holding sections of contact line together, e.g. above crossings

8955

Pantograph current collector with 1 fixing screw

8960

Göppingen station (center block) building kit - Base area 228 x 114 mm (9" x 4-1/2") - Height 44 mm (1-3/4")

8961

Platform building kit - In 2 parts - Total length 440 mm (1 ft 5-1/4") - Width 38 mm (1-1/2") - Height 23 mm (7/8")

8965

Signal box building kit - Base area 69 x 39 mm (2-3/4" x 1-1/2") - Height 46 mm (1-3/4")

8975

Arch bridge - Gray - Length 220 mm (8-5/8")

8976

Straight ramp section - Length 110 mm (4-3/8")

8977

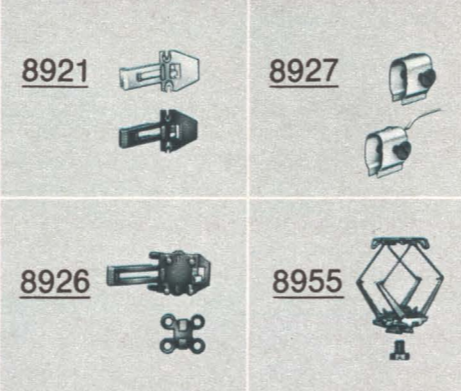
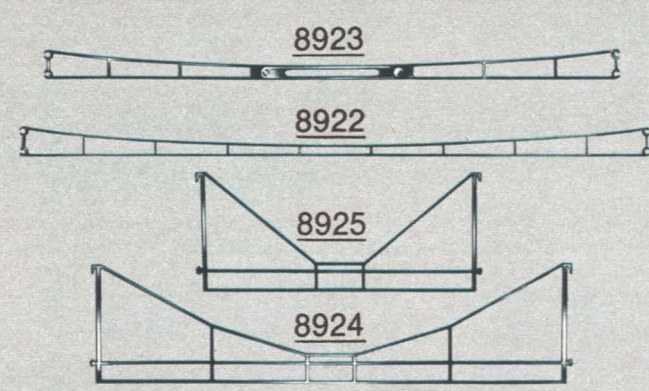
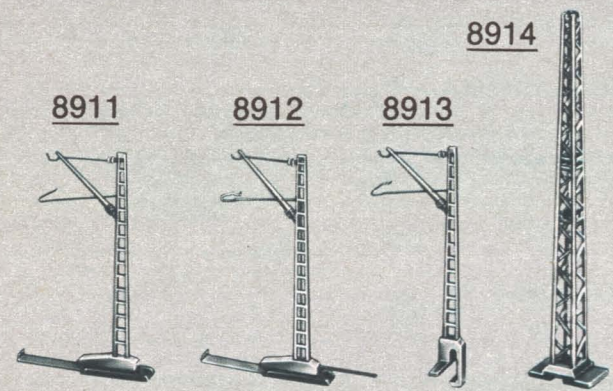
Curved ramp section - Radius 145 mm (5-3/4") - Track curvature 45°

8978

Set of approach ramp columns - Contains one column each of following heights: 4, 8, 12, 16, 20, 24, 28, 32, 36 and 40 mm (0.157" to 1-5/16")

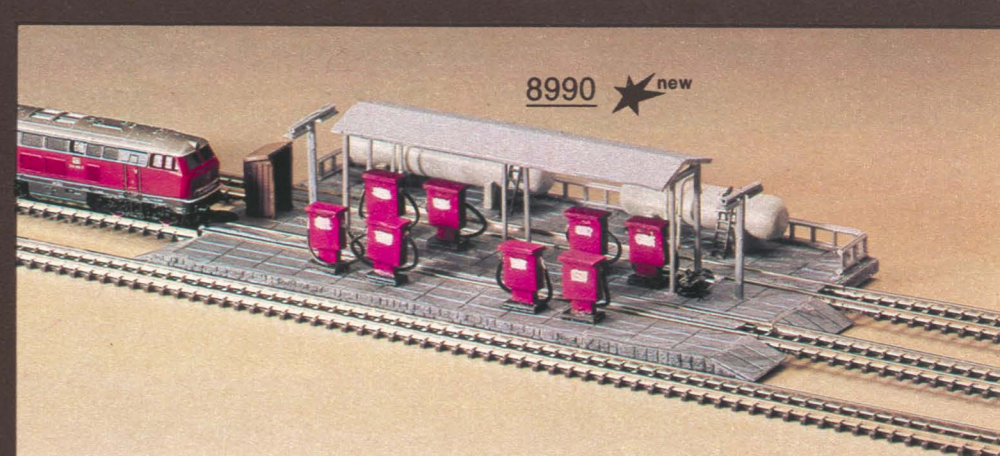
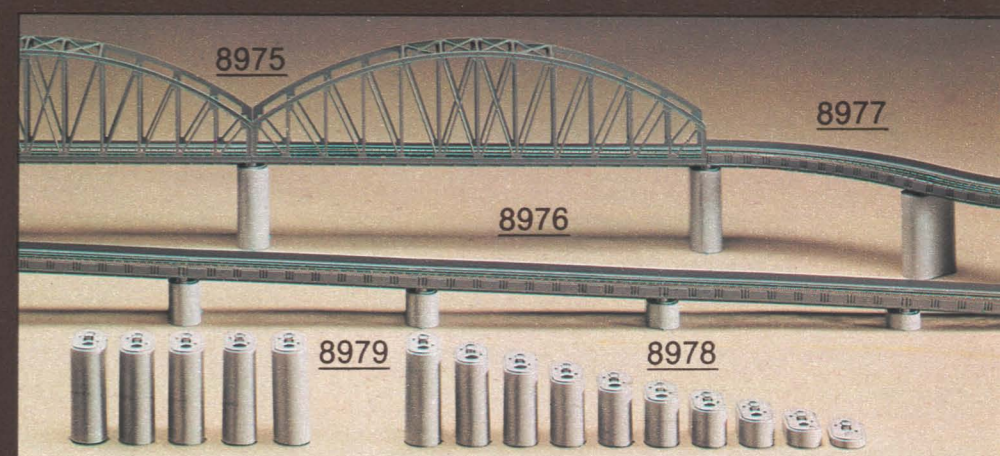
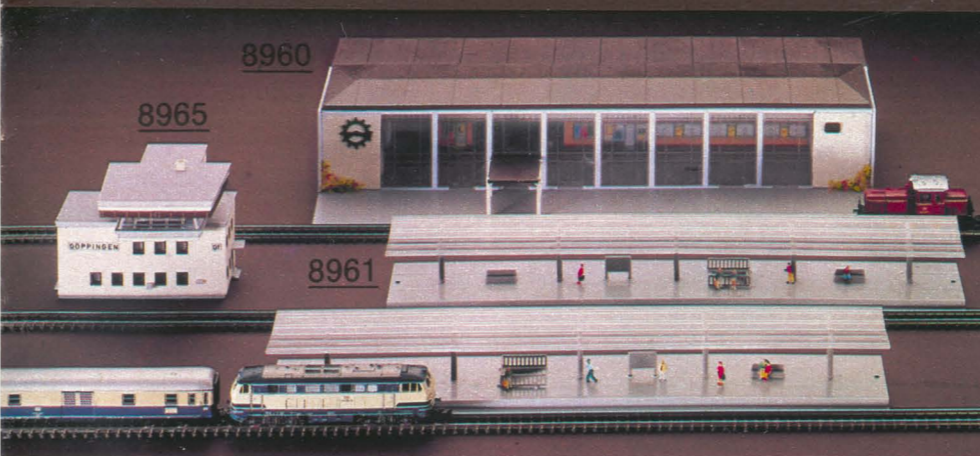
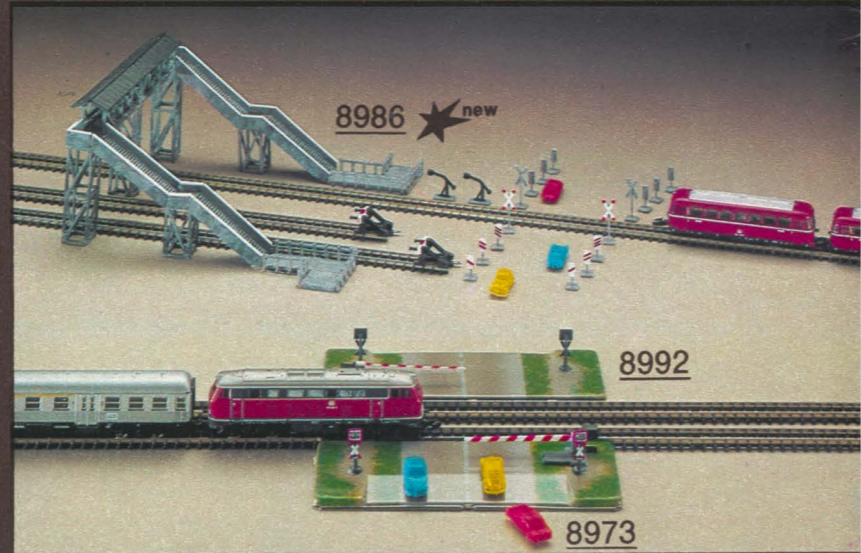
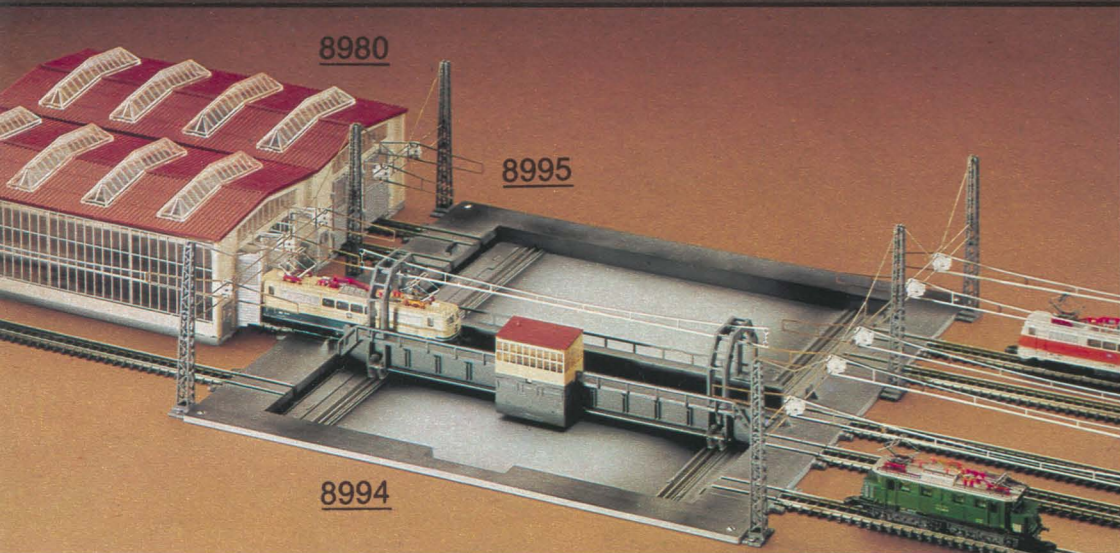
8979

Set of bridge piers - Comprising 5 piers 40 mm (1-5/8") high



Fitting out a layout

The wide scope of mini-club is evident in the large range of accessories available for configuring a layout. Thoroughly realistic layouts can be assembled, whether for steam, diesel or electric locomotive operation. Suitable landscaping cloths, loose matter which can be strewn about, model bushes and trees, buildings, etc. can be obtained from any good hobby store. Our building kits can be fitted with light fitting 8950.



8980

Building kit for locomotive shed with solenoid-operated door mechanism - Can accommodate 2 locomotive parking tracks with overhead lines - Length 152 mm (6") - Width 74 mm (2-7/8") - Height 51 mm (2") - The building kit includes 2 barrier track sections which will stop locomotives automatically as they enter the shed

8995

Catenary system kit for transfer table - Consists of 2 catenary system support gantries, 1 contact wire section 8922 with lead soldered on, and 10 short contact wire sections

8994

Transfer table with 2 approach tracks and 4 x 2 parking tracks - Matches locomotive shed 8980 - For flush mounting in the layout base plate - Power pack for remote control of the transfer table and locomotives - Electric motor drive - Power is automatically disconnected from all tracks not in contact with the transfer table - Width and length both 220 mm (8-5/8")

8973

Pack with various miniature automobiles

8986 ★ new

Rural track accessories kit - Consisting of 2 signal boxes, 4 diagonal crosses, 4 sets of 3 warning beacons, 1 telephone box and 1 footbridge

8992

Grade crossing with half barriers - Comprising 2 solenoid-operated barriers - 2 red warning lamps on each side which light when the barrier is closed - Size of each base 96 x 37 mm (3-3/4" x 1-1/2")

⊙ = 8953

The following items are also required with the grade crossing:

- a) for manual operation: 1 manual signal control panel 8946
- b) for automatic operation by a moving train: 1 universal remote control switch 8945, 2 switching track sections (of appropriate type, e.g. 8529, 8539 or 8599)

8981

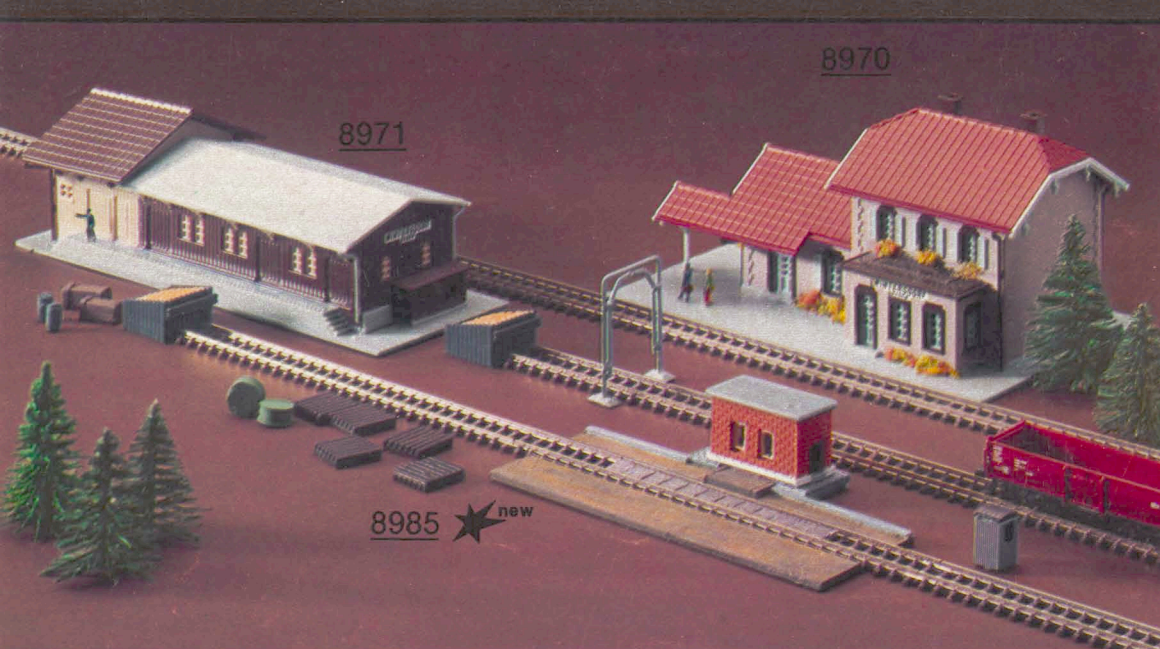
Building kit for locomotive shed with solenoid-operated door mechanism - Can accommodate one locomotive parking track - The kit includes a barrier track section which will stop a locomotive automatically as it enters the shed - Base area 150 mm x 50 mm (5-7/8" x 2")

8982

Coaling point building kit with crane, coal bunker, water tower, sand bunker and separate water hose crane - Base area 150 x 35 mm (5-7/8" x 1-3/8")


8990 ★ new

Diesel fueling point building kit - With pumps for fuel and heating oil, storage tanks and roof - Base area 150 x 75 mm (5-7/8" x 3")



8970

8971

8985 

8970

Wintersdorf station building kit with main building, annex and covered passage way · Can be used on its own or in conjunction with 8971 · Base area 72 × 112 mm (2-7/8" × 4-3/8") · Height 54 mm (2-1/8")

8971

Freight shed building kit with freight storage hut, loading ramps and equipment storage room · Can be used on its own or in conjunction with 8970 · Base area 53 × 130 mm (2-1/8" × 5-1/8") · Height 38 mm (1-1/2")

8985 


Freight station accessories kit · Consisting of loading height gauge, weigh-bridge (non-working model) with hut, 2 bumpers, 5 stacks of cross-ties, 2 rolls of cable, 2 crates and 2 drums

7599

Countersunk wood screws, for fixing bridge sections onto bridge piers · Pack of 200

8950

Light fitting with lamp insert and lead · For stations, buildings, etc.

 = 8953

8953


Lamp insert · With 10 V bulb · For use in light fitting 8950, signals 8939 and 8940, grade crossing 8992 and in locomotives which can take lighting

60210

Light bulb for items 8896, 8957, 8958 and 8959


8957

Lamp standard · Height 46 mm (1-3/4") · Base 8 × 14 mm (3/16" × 3/16")

 = 60210


8958

Station lamp standard · Height 46 mm (1-3/4") · Base 8 × 14 mm (3/16" × 3/16")

 = 60210

8959

Sidewalk lamp standard · Height 25 mm (1") · Base 8 × 14 mm (3/16" × 3/16")

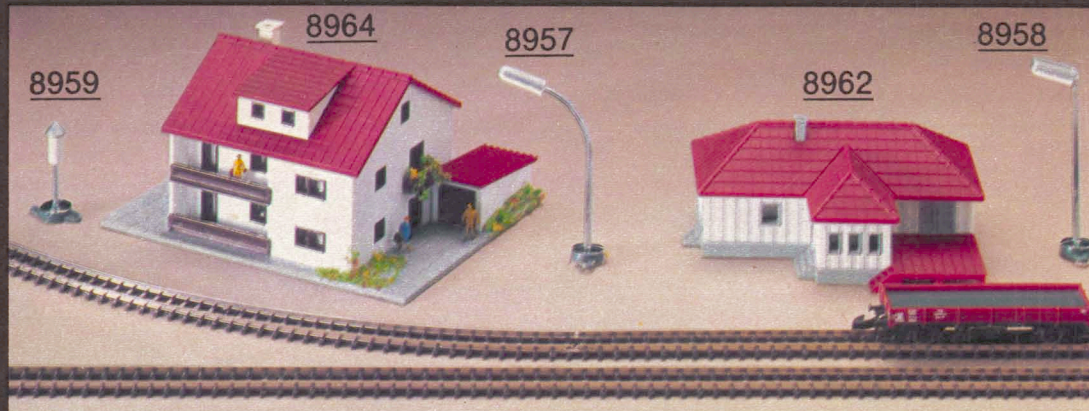
 = 60210

8962

Dürnau station building kit · Multipurpose building with annex and loading ramp · Base area 70 × 50 mm (2-3/4" × 2") · Height 30 mm (1-1/8")

8964

Dwelling house building kit with garage · For use either one or two-storied · Base area 91 × 71 mm (3-3/8" × 2-3/4") · Height 45 mm (1-3/4")



8959

8964

8957

8958

8962

8963

Apartment block building kit with roof penthouse · The two top sections can also be used separately as a bungalow and a kiosk · Base area 86 × 84 mm (3-3/8" × 3-3/8") · Height 97 mm (3-7/8")

8968

Terrace house building kit with garage · White · Can be built one or two-storied in a number of different ways, or can be used as a terrace house · Base area 81 × 45 mm (3-1/4" × 1-3/4") · Height 29 mm (1-1/8")

8969

Terrace house building kit with garage · The same kit as 8968, but with pale blue wall sections

8963



8969

8968



märklin

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